

Title (en)

TARGET PHYSIOLOGICAL FUNCTION INACTIVATOR USING PHOTSENSITIZER-LABELED FLUORESCENT PROTEIN

Title (de)

INAKTIVATOR EINER PHYSIOLOGISCHEN ZIELFUNKTION MIT PHOTOSENSIBILISATOR-MARKIERTEM FLUORESZENZPROTEIN

Title (fr)

INACTIVATEUR D'UNE FONCTION PHYSIOLOGIQUE CIBLE UTILISANT UNE PROTEINE FLUORESCENTE MARQUEE PAR UN PHOTOSENSIBILISANT

Publication

EP 1840213 A1 20071003 (EN)

Application

EP 05820352 A 20051221

Priority

- JP 2005023508 W 20051221
- JP 2004368946 A 20041221
- JP 2004368947 A 20041221

Abstract (en)

An object of the present invention is to provide a method of generating reactive oxygen species in a light irradiation-dependent manner, so as to inactivate any target physiological function. The present invention provides a target physiological function inactivator which consists of a photosensitizer-labeled fluorescent protein, wherein fluorescence resonance energy transfer (FRET) from the fluorescent protein to the photosensitizer occurs as a result of light irradiation, so that the photosensitizer can be excited to generate reactive oxygen species.

IPC 8 full level

C12N 15/09 (2006.01); **A61K 41/00** (2006.01); **A61P 43/00** (2006.01); **C07D 405/10** (2006.01); **C07K 14/435** (2006.01); **C07K 19/00** (2006.01)

CPC (source: EP US)

A61K 41/0057 (2013.01 - EP US); **A61K 41/0071** (2013.01 - EP US); **A61P 43/00** (2017.12 - EP); **C07K 14/43595** (2013.01 - EP US)

Designated contracting state (EPC)

CH DE FR GB LI

DOCDB simple family (publication)

EP 1840213 A1 20071003; **EP 1840213 A4 20080813**; CA 2591871 A1 20060629; JP WO2006068187 A1 20080612; US 2009017516 A1 20090115; WO 2006068187 A1 20060629

DOCDB simple family (application)

EP 05820352 A 20051221; CA 2591871 A 20051221; JP 2005023508 W 20051221; JP 2006549032 A 20051221; US 72228305 A 20051221